

How to Show Mean on the Number line

The mean of a set of 4 numbers is 5. Three of the numbers are 4.3; 8.15; and 1.65. **What is** the 4th number of the data set? How did you find it?

The distance between 5 and 1.65 is 3.35.

The distance between 5 and 4.3 is 0.7.

Those total **4.05** on the left side of the mean, which is 5.

The distance between 8.15 and 5 is 3.15 on the right side of the mean.

$4.05 - 3.15$ is .9. Because we need to have the same distance on the right side as on the left side. $3.15 + ? = 4.05$

$.9 + 5 = 5.9$ which is the unknown 4th number in the set.

To check: $1.65 + 4.3 + 8.15 + 5.9 = 20$

$20/4 = 5$



